

Boundary-Layer Scientist

The boundary-layer scientist (BLS) is responsible for data collection from AXBTs, AXCPs, AXCTDs, buoys, and SST radiometers (if these systems are used on the mission). General supplementary procedures follow. (Check off or initial.)

Preflight

1. Determine the status of equipment and report results to the Lead Project Scientist (LPS).
2. Confirm mission and pattern selection from the LPS.
3. Select the mode of operation for instruments after consultation with the LPS.
4. Complete appropriate preflight check list.

In-Flight

1. Operate the instruments as directed by the LPS.

Post flight

1. Complete summary checklist and all other appropriate forms.
2. Brief the LPS on equipment status and turn in completed checklists and any data tapes to the LPS.
[Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
3. Debrief as necessary at base of operations.
4. Determine the status of future missions and notify MGOc as to where you can be contacted.

AXBT and Sonobuoy Check Sheet Summary

Flight ID 20210828I1 Boundary-Layer Scientist ALAKA

Storm or Project Name IDA EMC

- | | Number of |
|---|-----------|
| (1) Probes dropped | <u>19</u> |
| (2) Failures | <u>1</u> |
| (3) Failures with no signal | <u>1</u> |
| (4) Failures with SST but terminated above thermocline | <u>0</u> |
| (5) Probes terminated above 250 m but below thermocline | <u>0</u> |

- | | | Number of |
|-----------------------------------|--------------|-----------|
| (6) Probes used by channel number | <u>CH-12</u> | <u>19</u> |
| | CH-14 | _____ |
| | CH-16 | _____ |
| | CH-__ | _____ |

NOTES:

1 "Failed" probe may have transmitted, but I didn't see it on the plane

AXBT and Sonobuoy Check Sheet (revised 6/23/04)

Flight Number 2021682811 Storm IDA 09L Storm Direction/Speed NW @ 13 kt

Take-Off Time 07:57Z Landing Time _____

	Drop #	Channel Number	Drop Time (HHMMSS)	Latitude (Decimal)	Longitude (Decimal)	Splash Time (HHMMSS)	Sfc Temp. AXBT	MLD (m) (#secs x 1.5)	Comments
IP	1	12	092908	25.0	86.5	092213	29.62		29.59
MP	2	12	093159	24.5	86.0	093430	29.61		29.25
C	3	12	094455	24.0	85.2	094800	28.99		28.97
MP	4	12	100105	23.4	84.5	N/A 100843	N/A 28.96		No data
EP	5	12	101114	23.2	83.8	101350	29.72		29.14
EP	6	12	104200	25.2	84.4	104344	29.79		28.93
MP	7	12	105040	24.8	84.8	N/A	N/A		No data
RMW	8	12	105830	24.4	85.2	110110	29.79		31.26
MP	9	12	112123	23.3	86.5	112659	28.62		
EP	10	12	112720	23.0	86.8	113443	27.31		Channel picked up prev. BT → NO DATA
EP	11	12	114320	23.2	85.6	114632	25.93		Too low?
MP	12	12	115410	23.7	85.6	120116	25.87		Too low?
MP	13	12	123630						
EP	14	12	122223	25.6	85.8	123112	29.37		
EP	15	12	130110	24.7	87.9	131111	27.78		
MP	16	12	134740	24.7	86.8	135030	29.19		

